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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/670,154	09/26/2000	Gengying Gao	75292/06037	4842
75	590 08/07/2002		·	
JURGEN K. VOLLRATH EXAMINE				INER
588 Sutter Stree #531	et		NGUYEN, TRUNG Q	
San Francisco,	CA 94102		ART UNIT	PAPER NUMBER
			2829	
		DATE MAILED: 08/07/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applicati n N .	Applicant(s)				
	09/670,154	GAO ET AL.				
Offic Action Summary	Examiner	Art Unit				
	Trung Q Nguyen	2829				
The MAILING DATE f this communication apperiod f r Reply	pears on the cover shet wi	th the correspondenc address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1)⊠ Responsive to communication(s) filed on <u>12 l</u>	February 2002					
	nis action is non-final.					
, — , — , — , — , — , — , — , — , — , —		ers prosecution as to the mer	ite ie			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4) Claim(s) 1-20 is/are pending in the application	۱.					
4a) Of the above claim(s) is/are withdra	wn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-20</u> is/are rejected.			•			
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the extended detailed Office action for a list of the certified assistant.						
* See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of In	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152)	_·			

DETAILED ACTION

1. The Final Rejection mailed May 20, 2002 has been withdrawn. Accordingly, a new office action will be mailed.

Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Trung Nguyen whose telephone number is 703-305-4925. The examiner can normally be reached on Monday through Friday, 8:30AM – 5:00PM. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-5841. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached at 703-308-1680.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)-308-0956.

DETAILED ACTION

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Response to Amendment

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Paniccia (U.S. 5,872,360).

As to claim 1, Paniccia et al. (hereafter Paniccia) disclose in Figure 4 a method of testing the ESD performance of an IC 405 device comprising a laser beam 413 and monitoring via detector 417 the amount of light reflected from the device (see column 4 line 61 to column 5 line 6).

As to claim 2, Paniccia discloses in Figure 4 a laser beam 413 is used to probe the IC device 405.

As to claim 3, Paniccia discloses in column 5, lines 24-31 that the energy of the laser beam corresponds substantially to the band gap of the substrate of the device.

As to claim 4, Paniccia discloses in column 5, lines 8-10 that the substrate is silicon and in column 5, lines 20-23 that the energy of the laser beam is about 1.1eV (via λ =1.064nm in wavelength, base on λ =E/hc, H is Plank constant (h=6.626x10⁻³⁴) and c is the speed of light (c=3x10⁶m/s therefore, E=1.1eV).

As to claim 5, Paniccia discloses in Figure 6 and in column 6, lines 6-14 that the diffusions of the IC device 603 are probed with the laser beam 609.

As to claim 6, Paniccia discloses in Figure 4 and in column 6, lines 13-17 that the device is probed through the back of the device.

As to claim 7, Paniccia discloses in Figure 4 and in column 5, lines 42-58 that the diffusions of I/O cells via P-N Junction of 603 are probed via light 609 to determine how much light is absorbed via light 413 of Fig. 4 and how much light is reflected via light 415 of Fig. 4 by the diffusions 58.

As to claim 8, Paniccia discloses in Figure 7 and in column 7, lines 1-23 that several samples via 703, 705 and 707 are taken of each probed location and the results averaged.

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As to claims 9 and 17, Paniccia discloses in Figure 4 and in column 5, lines 20-23 that a mode-locked laser 407 is used to probe the IC device.

As to claims 10 and 18, Paniccia discloses in Figure 7 and in column 8, lines 6-15 that a continuous wave laser is used to probe the IC device.

As to claims 11 and 19, Paniccia discloses in Figure 4 the mode locked laser 407 is positioned to provide a laser beam 413, which is focused on an active region 403. It is obvious that the mode locked laser 407 had positioned by a user in order to focused on an active region 403.

As to claims 12 and 20, Paniccia discloses in Figure 8 the mode-locked laser 803 is positioned automatically using image recognition 843 via camera.

As to claim 13, Although Paniccia does not explicitly disclose that power is supplied to the DUT, the power supply is inherent to the DUT since it require power to operate.

As to claims 14-15, Paniccia discloses in Figure 4 testing is performed on the device in a package form (column 5, lines 9-10) and prepackage (via to be packaged, column 1, lines 50-55).

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(column 1, lines 62-67).

As to claim 16, Paniccia discloses the device includes only some of its layers

Conclusion

4. Applicant's arguments with respect to claims 1-20 have been considered but are

moot in view of the new ground(s) of rejection.

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MICHAEL SHERRY

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2800

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MICHAEL SHERRY SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800

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